

John B.

RECEIVED

JAN 26 1989

RESEARCH TRIANGLE INSTITUTE

PRMT SECTION

Center for Environmental Measurements

January 23, 1989

Robert Boland  
Monsanto Company  
1700 South 2nd Street  
St. Louis, Missouri 63177

Dear Mr. Boland:

Research Triangle Institute (RTI) has been requested to provide you with 1 (one) cylinder of parts-per-billion level multicomponent mixture in nitrogen for an audit by EPA. We are shipping this cylinder today by Overnite Transportation Company, as per the request.

Please note that each cylinder has been analyzed several times and is very valuable. Each cylinder costs approximately \$2,000-\$6,000. We urge you to use only the amount of gas required to conduct the audit of your analytical system and to be certain the cylinder valves are properly closed to prevent slow loss of the contents. Return the cylinder as soon as possible so that other organizations may also participate in the audit program.

We request that you submit the audit results (ppbV) to me and ship the cylinder (and VOST suitcase, if supplied) back within 30 days of the date of delivery, at your cost, (prepaid, not collect) to:

Research Triangle Institute  
ATTN: Shonna Tompkins, Building #6  
3040 Cornwallis Road  
Research Triangle Park, NC 27709

You must insure each cylinder for at least \$6,000 upon shipment back to RTI. We would appreciate your cooperation in this regard. If you have any questions concerning this audit cylinder, please feel free to call me at (919) 541-6483.

Sincerely,

*Shonna B. Tompkins*

R.K.M. Jayanty  
Project Leader

RKMJ/sbt/311

cc: Darryl von Lehmden, EPA/EMSL, RTP  
Robert Lampe, EPA/EMSL, RTP  
David Friedman, Washington, D.C.  
John Smith, EPA Region 7, Kansas



R00105817  
RCRA RECORDS CENTER

PART A - To be filled out by organization supplying audit cylinders

**1. Individual requesting Audit, organization, and phone number:**

John Smith, US EPA Region 7  
726 Minnesota Ave.  
Kansas City, Kansas 66101 (913)236-2888

**2. Audit supervisor, organization, and phone number:**

Dr. R.K.M. Jayanty, Research Triangle Institute (919) 541-6483

**3. Shipping instructions:**

Robert Boland  
Monsanto Company  
1700 South 2nd Street  
St. Louis, Missouri 63177

**4. Cylinder shipping date:** 1-23-1989

**5. Expected arrival date:** 1-30-1989

**6. Audit cylinder status:**

a. Cylinder ID: AAL 18491  
b. Pressure, psig: 1740  
c. Construction: aluminum  
d. Balance gas: nitrogen

**7. Organic chemical manufacturing process:**

Herbicides & Agricultural Chemicals

**8. Name of individual or organization being audited:**

PEI, Inc.

**9. Location of audit:**

Monsanto Co.- St. Louis, MO

**10. Use of audit material:**

Ascertain accuracy of VOST sampling and GC/MS analysis procedures during a RCRA trial burn.

a. Sampling method: VOST  
b. Analytical method: GC/MS  
c. Accuracy assessment of:

[ ] VOST method prior to RCRA trial burn  
[ ] bag method prior to RCRA trial burn  
[XX] VOST method during actual RCRA trial burn  
[ ] bag method during actual RCRA trial burn  
[ ] measurement method used for routine ambient air measurements  
[ ] measurement method used at hazardous waste landfill  
[ ] other (explain): \_\_\_\_\_

+This page not sent to the auditee, but only to the following people:

cc: Darryl von Lehmden, EPA/EMSL, RTP  
Robert Lampe, EPA/EMSL, RTP  
David Friedman, Washington, D.C.  
John Smith, EPA Region 7, Kansas

## PPB FIELD AUDIT REPORT

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PART B - To be filled out by audit supervisor

## 1. Audit Results:

a.Cylinder ID: AAL 18491  
b.Last Analysis: 8/1988  
c.psig pre-audit: 1740  
d.psig after audit:

COMPOUND (GROUP I)	AUDITEE CONC (ppbV)	RTI CONC (ppbV)	AUDIT % BIAS*
Carbon Tetrachloride		20.8+2.9	
Chloroform		12.0+1.4	
Perchloroethylene		22.9+1.6	
Benzene		11.0+1.0	
Vinyl Chloride		32.9+3.8	

\*Audit Accuracy expressed as % Bias =  $\frac{\text{Auditee conc} - \text{RTI conc}}{\text{RTI conc}} \times 100$

Comments \_\_\_\_\_

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